Product Information Sheet

P658
Orchid Maintenance Medium
Contains Charcoal and Agar

Properties

Form:	Powder
Appearance:	Gray powder
Application:	Orchid Culture
Solubility:	Partially Soluble in Water
Typical Working Concentration:	35.31 g/L
Storage Temp:	2 – 6° C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	pH = 4.75 – 5.75

Formula

Ammonium Nitrate	825
Boric Acid	3.1
Calcium Chloride, Anhydrous	166
Cobalt Chloride•$6H_2O$	0.0125
Cupric Sulfate•$5H_2O$	0.0125
Na_2 EDTA•$2H_2O$	37.3
Ferrous Sulfate•$7H_2O$	27.85
Magnesium Sulfate, Anhydrous	90.35
Manganese Sulfate•H_2O	8.45
Molybdic Acid (Sodium Salt) •$2H_2O$	0.125
Potassium Iodide	0.415
Potassium Nitrate	950

Potassium Phosphate, Monobasic	85
Zinc Sulfate•$7H_2O$	5.3
Activated Charcoal	2000
Agar	8000
MES (Free Acid)	1000
myo-Inositol	100
Nicotinic Acid (Free Acid)	1
Peptone from Meat	2000
Pyridoxine•HCl	1
Sucrose	20,000
Thiamine•HCl	10

Application Notes

Plant Tissue Culture Tested
Plant species: Many epiphytic orchid species
This medium is a modification of P668 Orchid Maintenance/ Replate Medium; P658 differs from P668 in that it contains 8.0 g/L of agar. It was originally developed for the culture of Phalaenopsis stem props; it is now widely used as a seed sowing and replate medium for many epiphytic orchid species.

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